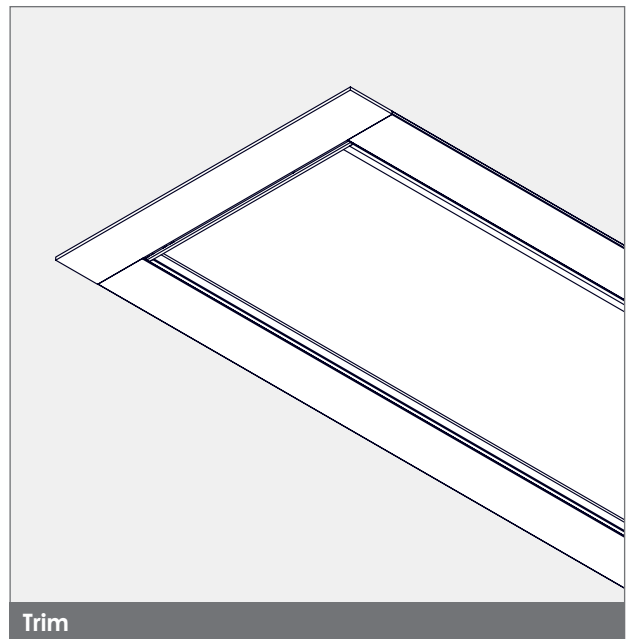
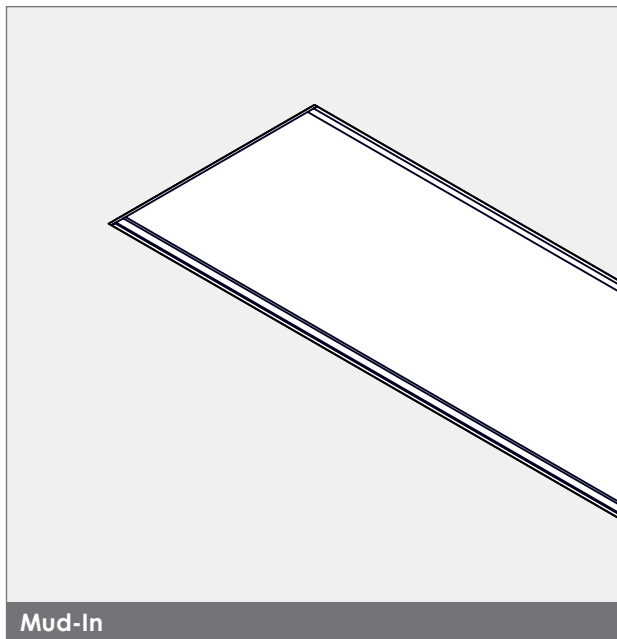




INSTALLATION INSTRUCTIONS

SUPERPLANE™ 4 RECESSED – SP4R

Mud-In | Trim



SP4R - Safety & Warnings!

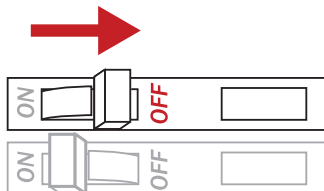
1. Read all instructions.
2. Install in accordance with national and local electrical code regulations.
3. This product is intended to be installed and serviced by a qualified, licensed electrician.
4. Do not install in wet locations. For dry and damp use only.
5. Turn off electrical power before installing or servicing fixture in any way.
6. To reduce the risk of fire and overheating, make sure all connections are tight.
7. This product is type IC (insulation contact) rated, and suitable for continuous row mounting.
8. Handle ControRoll™ lens with care! Always wear protective eyewear while handling lens! Lens may chip/crack when handled roughly.

SP4R - Attention!

1. Lisez toutes les instructions.
2. Installez conformément à la réglementation du code électrique national et local.
3. Ce produit est destiné à être installé et entretenu par un électricien agréé qualifié.
4. Ne pas installer à l'extérieur ou dans des endroits humides. Pour une utilisation en intérieur et sec seulement.
5. Coupez l'alimentation électrique avant de évoluer le système d'éclairage en aucune façon.
6. Pour réduire le risque d'incendie et de surchauffe, assurez-vous que toutes les connexions sont bien serrées.
7. Type IC. Pour emplacements secs seulement . Peut être monté en rangée continue.
8. Manipuler l'objectif ControlRoll avec soin! Portez toujours des lunettes de protection lors de la manipulation de l'objectif ControlRoll.

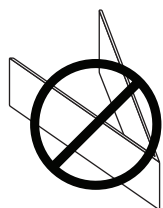


SHOCK HAZARD! May result in serious injury or death. Turn power OFF at circuit breaker prior to installation or servicing.

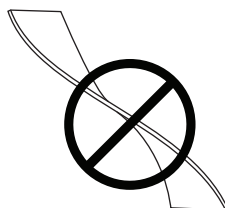


CONTROLROLL™ LENS HANDLING & SAFETY!

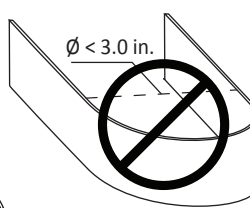
ALWAYS WEAR PROTECTIVE EYEWEAR WHILE HANDLING LENS!
LENS MAY CHIP/CRACK WHEN HANDLED ROUGHLY!



DO NOT CREASE LENS



DO NOT TWIST LENS

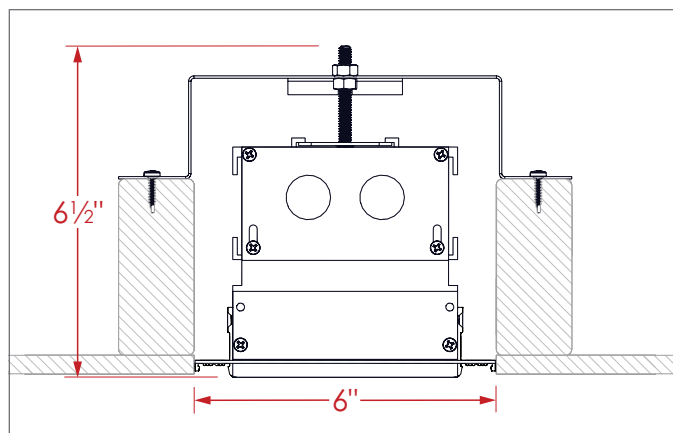
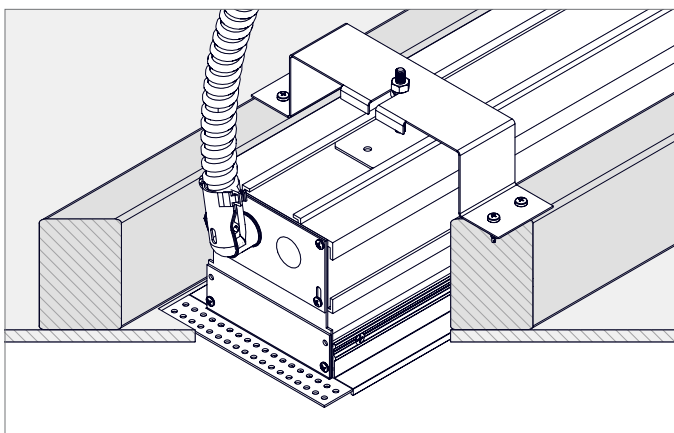


DO NOT BEND LENS TO A DIAMETER LESS THAN 3 INCHES.

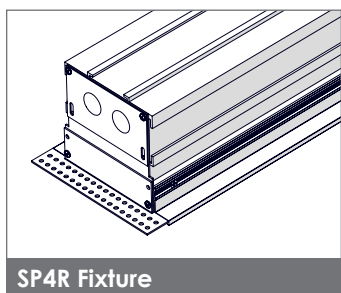
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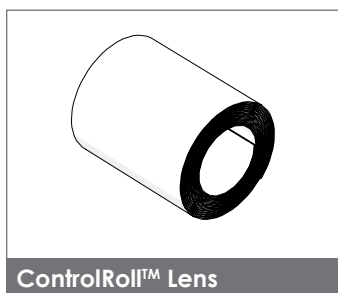
Luminaire Overview



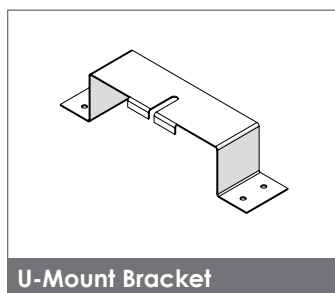
Included Parts



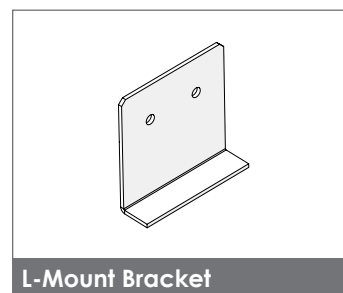
SP4R Fixture



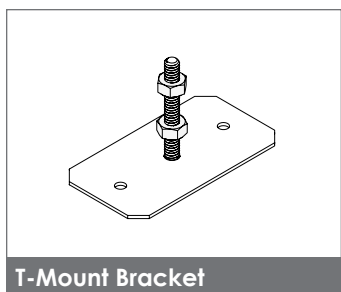
ControlRoll™ Lens



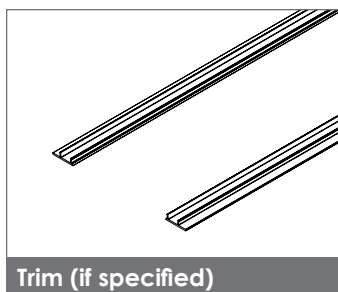
U-Mount Bracket



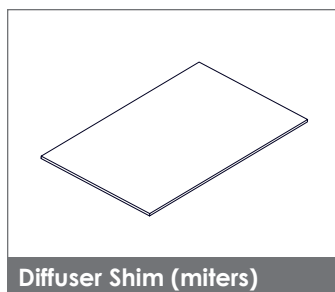
L-Mount Bracket



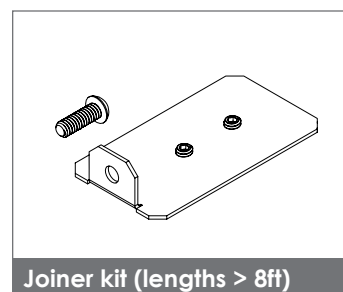
T-Mount Bracket



Trim (if specified)



Diffuser Shim (miters)



Joiner kit (lengths > 8ft)

Parts (by others)

- ▣ Wood screws
- ▣ 1/4"-20 nuts
- ▣ Drywall tape
- ▣ Mud plaster
- ▣ #8 self-drilling screws
(if installing L-mount brackets)

Tools Required

- ▣ Drill
- ▣ #2 phillips bit
- ▣ Drywall cutting tool
- ▣ Mud trowel
- ▣ Wrench
- ▣ Wire strippers
- ▣ 1/8" Allen key

Quick Specs

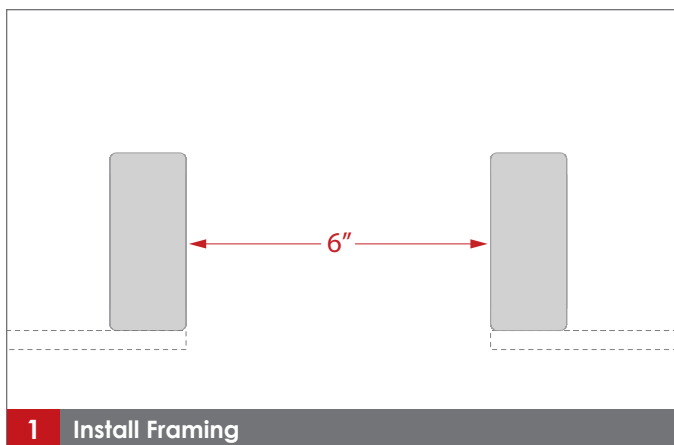
Input Voltage / Frequency:
See product label

Rated Current:
See engineering drawing

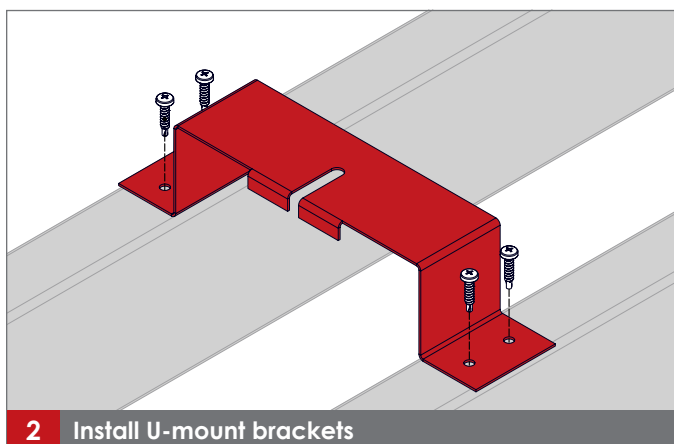
Ambient Temperature:
-4° – 120°F (-20° – 50°C)

Environment:
Dry and damp locations

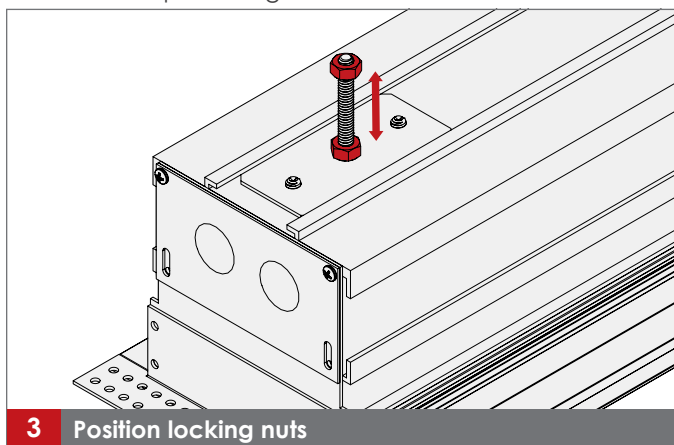
Installation: With Top Access



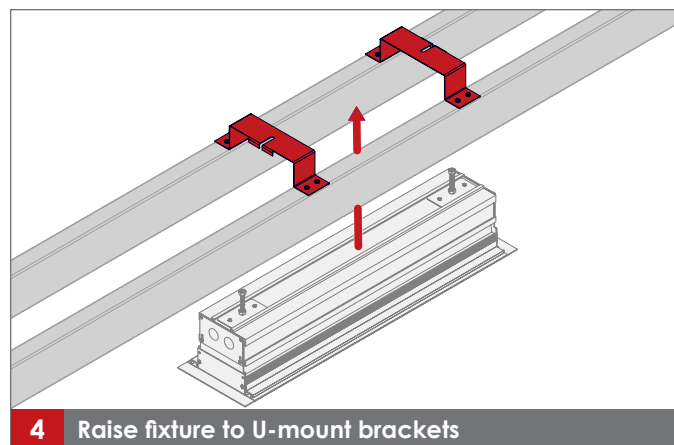
Install framing with 6 in. spacing for fixture. Check blocking for straightness, alignment, and consistent 6 in. spacing along length. For vertical installations, add blocking across opening at bottom end of fixture.



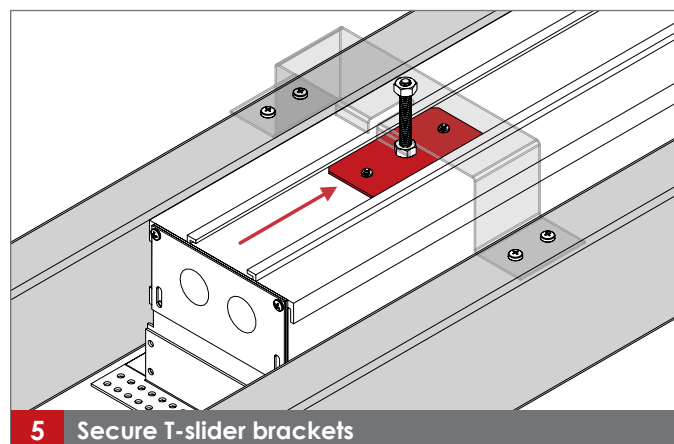
Fasten mounting brackets to top of framing with 4x screws (not-included). Brackets should be placed approximately 8 in. from fixture ends with slots facing towards ends of fixture. For sections 6 ft. and longer, install a third bracket near the mid-point length of the fixture.



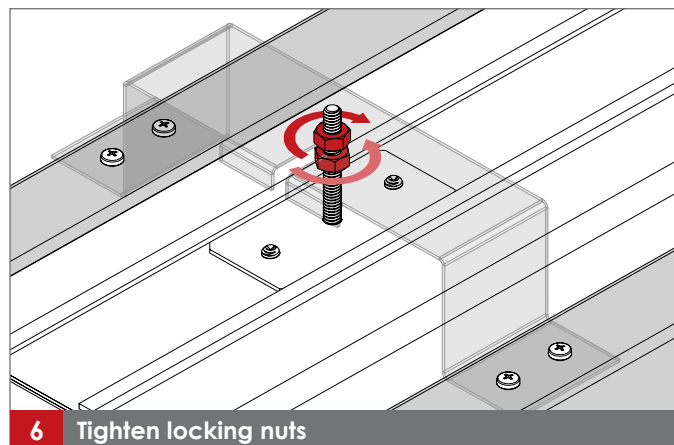
Position locking nuts on T-Slider Brackets as shown in image.



Raise fixture to U-Mount Brackets. Ensure sliders are properly oriented to outside of brackets.

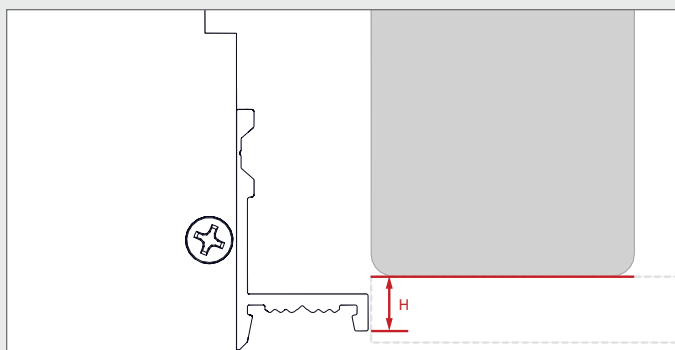


Loosen set screws on slider plate with 1/8" allen key and position into U-Mount Bracket. Tighten set screws with allen key.



Tighten top and bottom locking nuts until fastened to U-Mount Bracket. Raise or lower by adjusting locking nuts. See next step for alignment instructions.

Installation: With Top Access

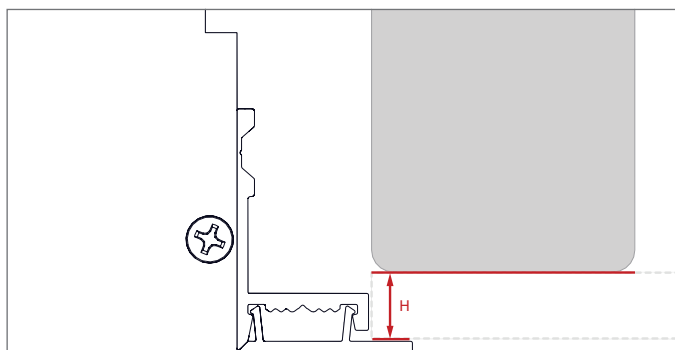


Mud-in fixture alignment

Adjust locking nuts at T-Slider Bracket until edge of mud-flange is at distance "H" below framing. See Drywall Thickness table below.

Drywall Thickness Table

- ▣ for 3/8" drywall, H = 5/16"
- ▣ for 1/2" drywall, H = 7/16"
- ▣ for 5/8" drywall, H = 9/16"

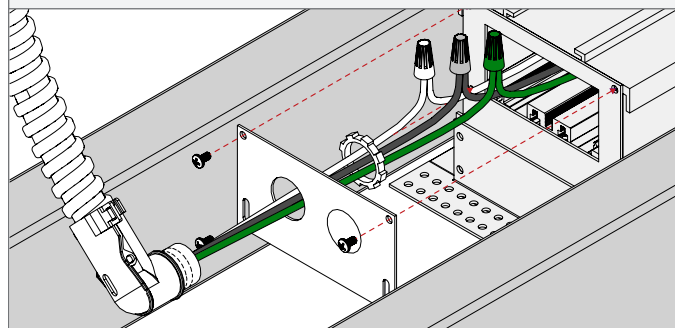


Trim fixture alignment

Adjust nuts at mounting bracket until top edge of trim-flange is at distance "H" below blocking. H is equal to drywall thickness.

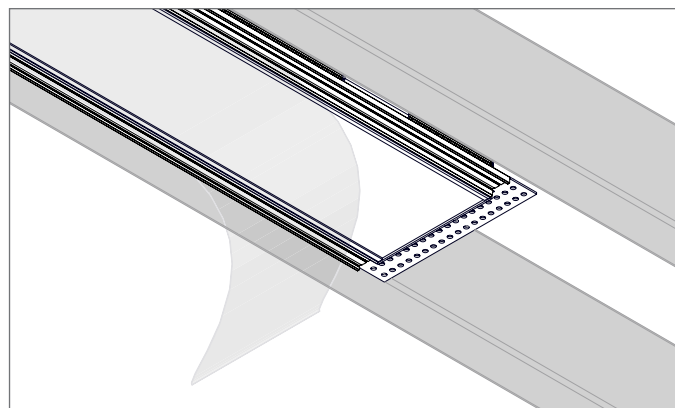


SHOCK HAZARD! May result in serious injury or death. Turn power OFF at circuit breaker prior to installation or servicing.



7 Connect wiring

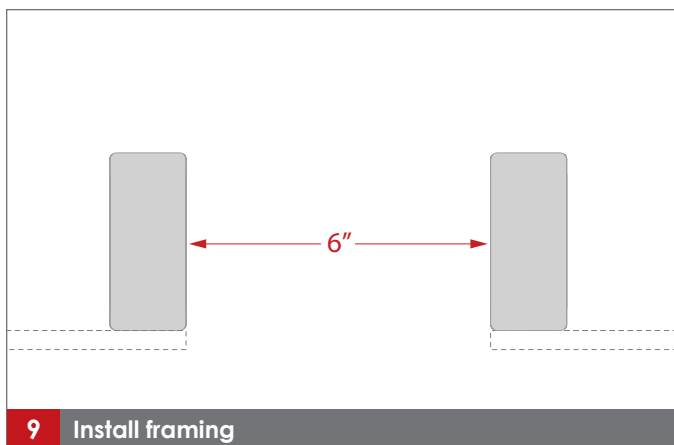
Take off the end cap window cover and punch the knock-out. Make connections as shown and secure conduit to window cover. Screw the cover back ensuring not to pinch wires between parts. See wiring details on pg. 14.



8 Remove protective film

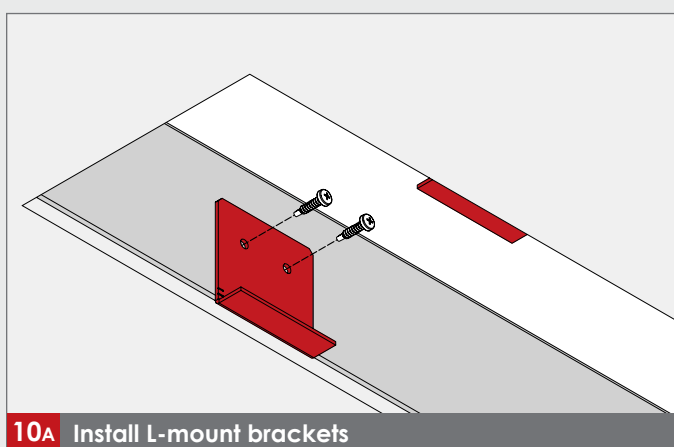
Remove the protective film on the fixture. You may reuse it after the lens is installed to protect the fixture from dust, scratches, and other debris until it is commissioned.

Installation: Without Top Access



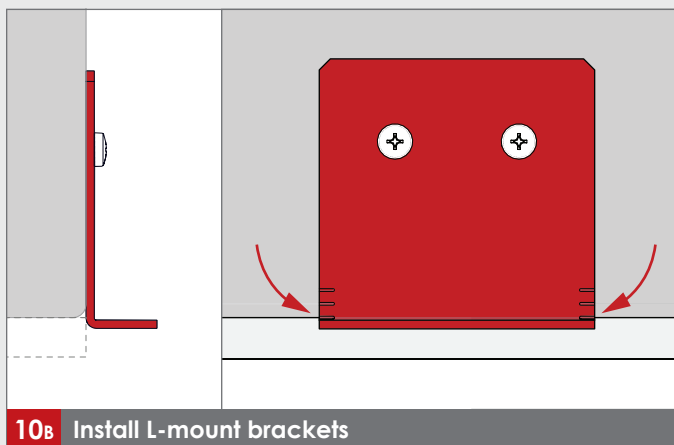
9 Install framing

Install framing with 6 in. spacing for fixture. Check framing for straightness, alignment, and consistent 6 in. spacing along length.



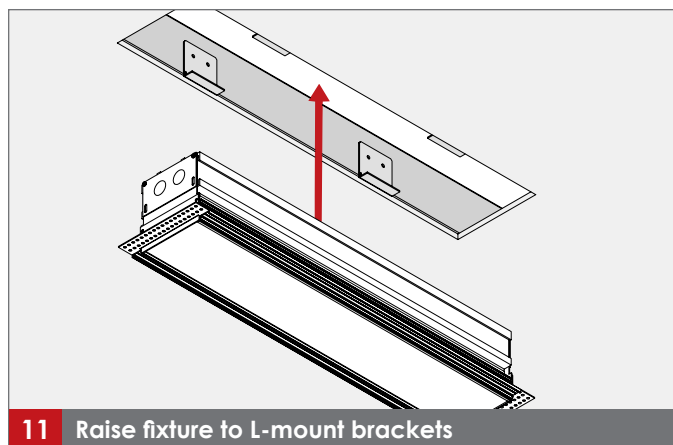
10A Install L-mount brackets

Fasten 4x mounting brackets to inside of framing with 2x wood screws (not-included) on each bracket. Brackets should be placed approximately 8 in. from fixture ends. For sections 6 ft. and longer, install 2x additional brackets (one on each side of fixture) near the mid-point length of the fixture.



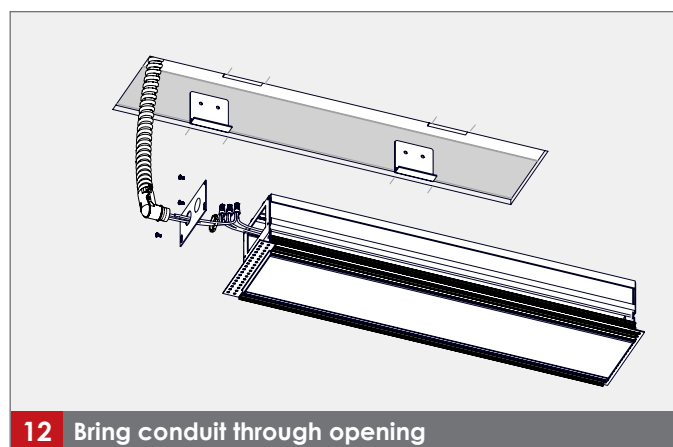
10B Install L-mount brackets

Align score marks on bracket with top of drywall. Use bottom score marks for 3/8" drywall, middle score marks for 1/2" drywall, and top score marks for 5/8" drywall.



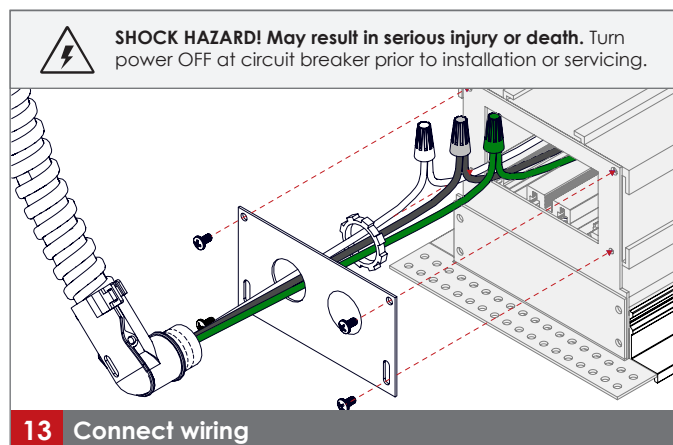
11 Raise fixture to L-mount brackets

Raise fixture to L-Mount Brackets.



12 Bring conduit through opening

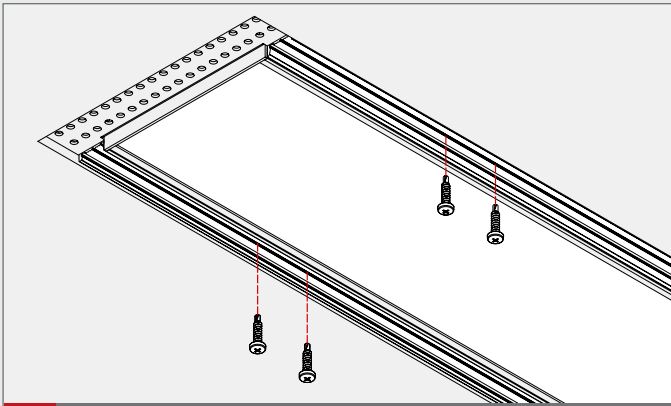
Bring conduit through opening.



13 Connect wiring

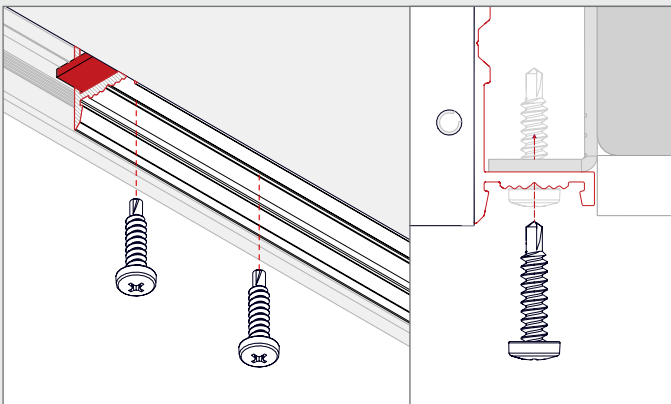
Connect wires. Punch out knockout with tap and secure conduit to enclosure window with threaded screw. See wiring diagrams on page 14 for complete wiring details.

Installation: Without Top Access



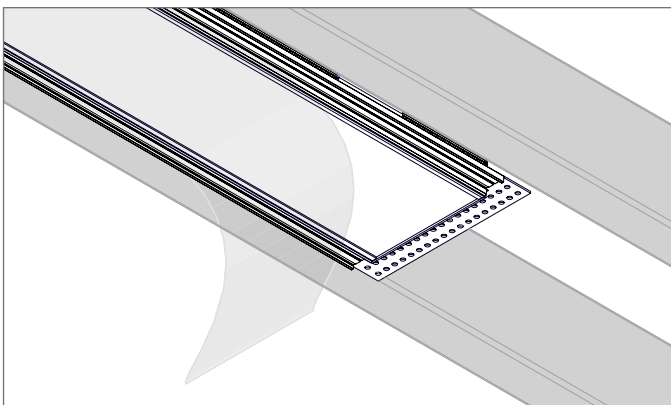
14A Secure fixture to L-mount brackets

Fasten fixture to L-Mount Brackets with self-tapping screws (2x screws per bracket). Ensure to drill directly through the center of the mud-in extrusion in the provided groove.



14B Secure fixture to L-mount brackets

Drill through center of mud-in extrusion!

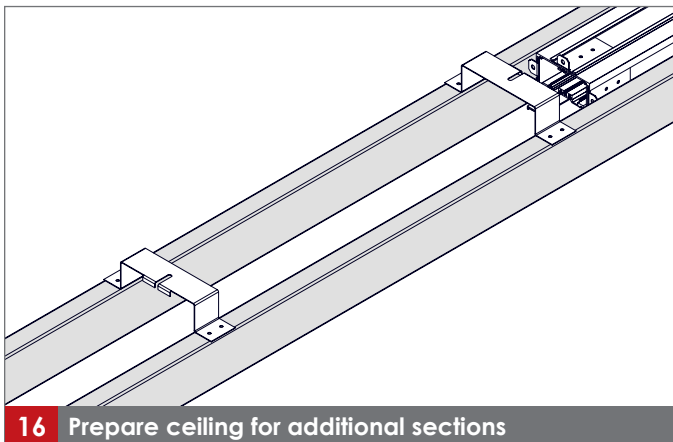


15 Remove protective film

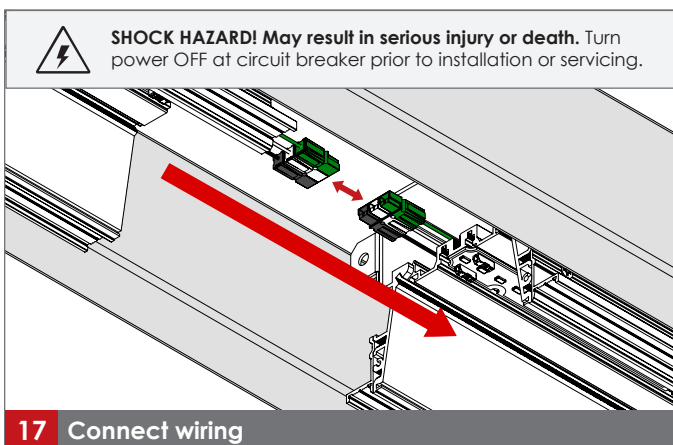
Remove the protective film on the fixture. You may reuse it after the lens is installed to protect the fixture from dust, scratches, and other debris until it is commissioned.

Installation: Joining Straight Sections

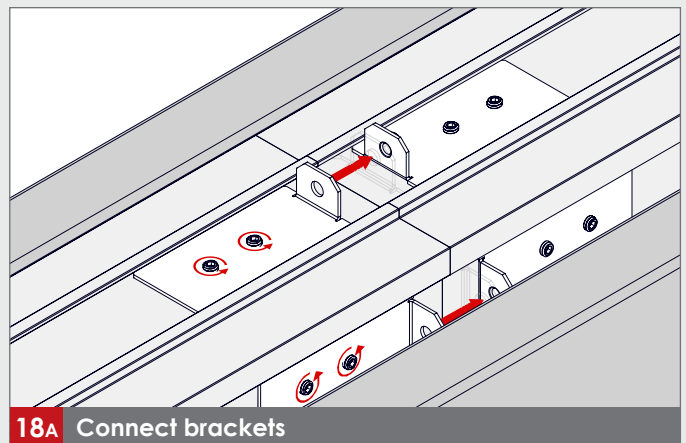
- ▣ If joining compound fixtures continue with steps 16-22.
- ▣ If installing single-section fixtures, go to step 23.



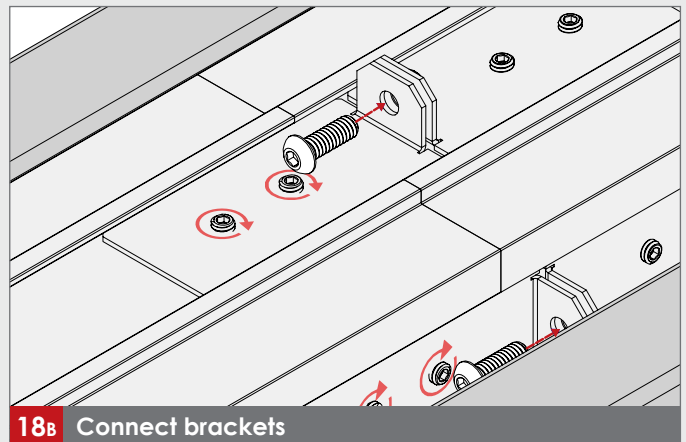
Install U-mount brackets for additional sections as outlined in step 2.



Connect wiring quick-connects and slide the adjacent section so that the faces are flush.



Loosen the set screws using 1/8" allen key and slide the section connectors on one section until they are approximately 1/4" apart.

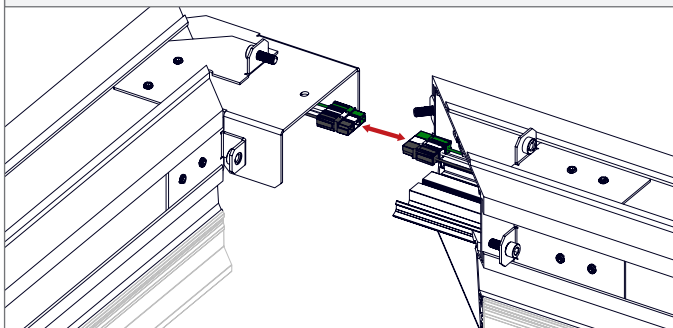


Tighten the set screws on the connector bracket and attach both fixtures with included M6 screws.

Installation: Joining Mitered Corners

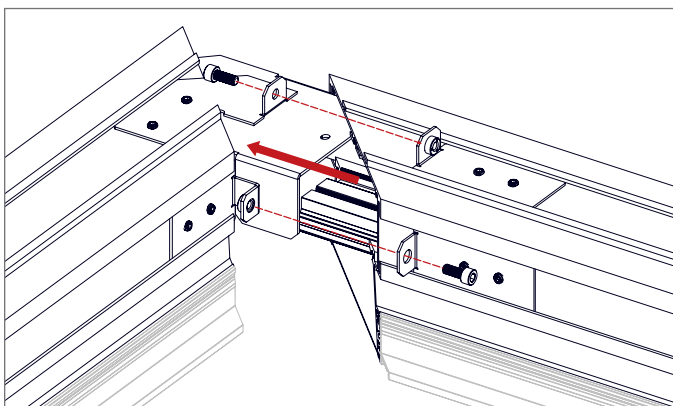


SHOCK HAZARD! May result in serious injury or death. Turn power OFF at circuit breaker prior to installation or servicing.



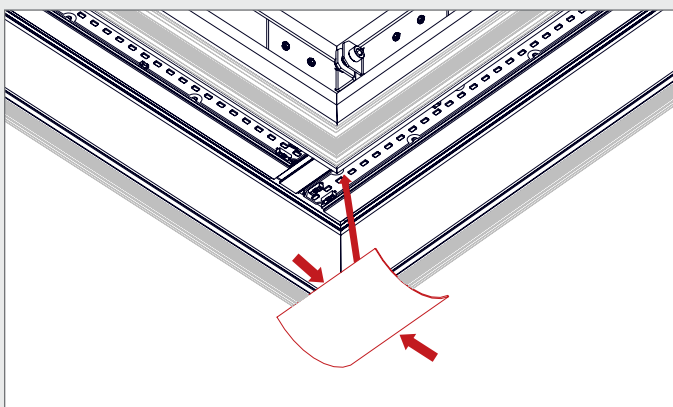
19 Connect wiring

Connect wiring quick connects between fixtrue sections.



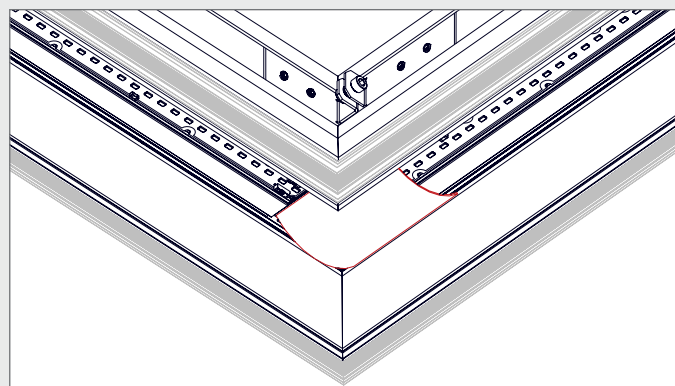
20 Connect brackets

Slide miter sections together and join section connectors. Adjust connectors with set screws as necessary.

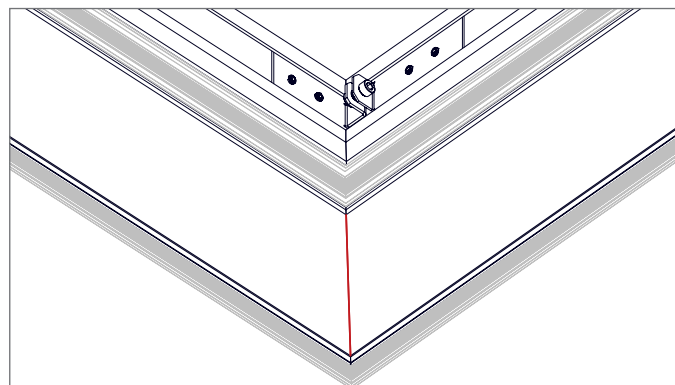


21A Insert diffuser shim

Bend the provided diffuser shim and insert it into the grooves in the side walls of the extrusion so that it covers the LED's extending into the miter joint.



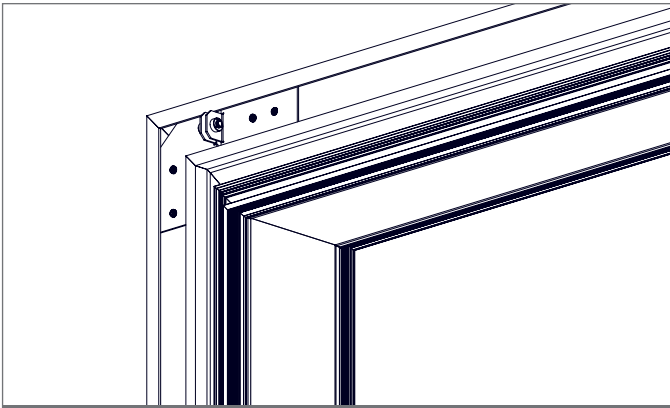
21B Insert diffuser shim



22 Install ControlRoll™ Lenses

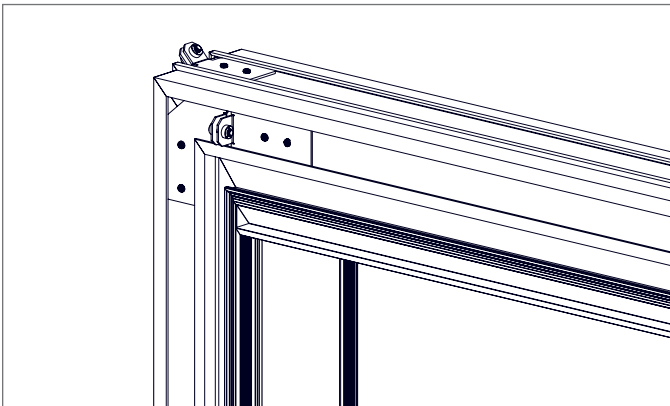
Install lenses as shown in step 28-31. **Lens sections must not form a gap.**

Installation: Inside Corner

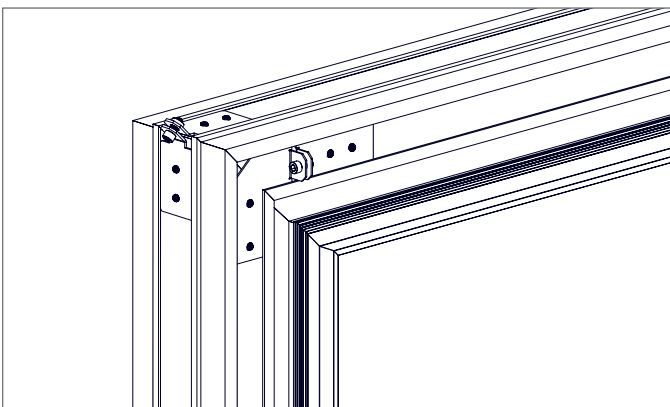


Inside corner

Install fixture sections, make connections, and install lenses.

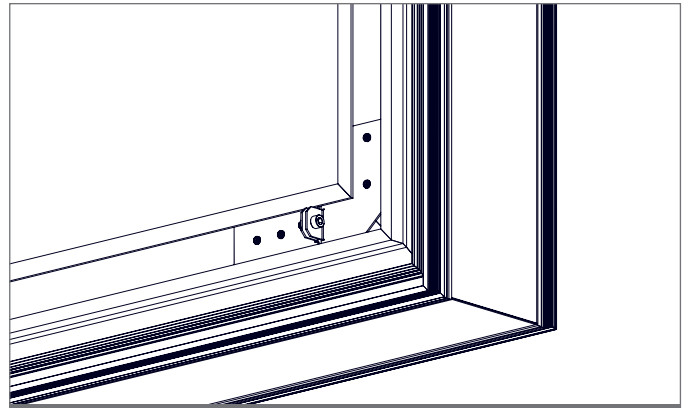


Inside corner



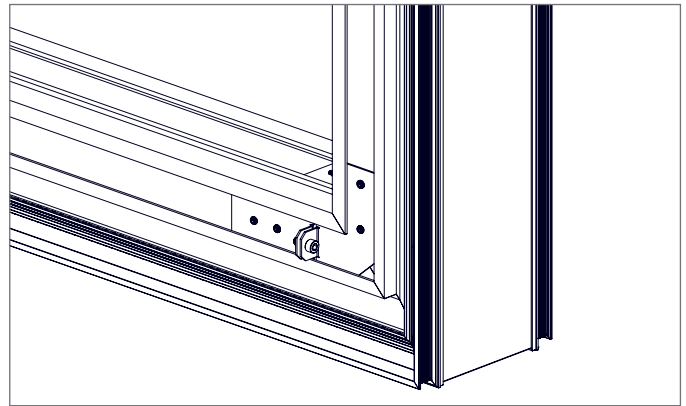
Inside corner

Installation: Outside Corner

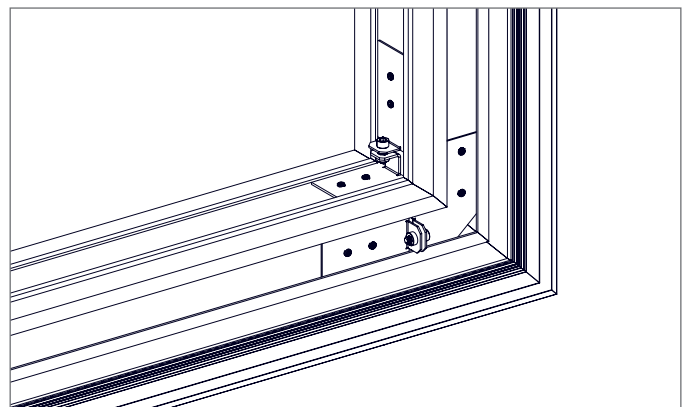


Outside corner

Install fixture sections, make connections, and install lenses.



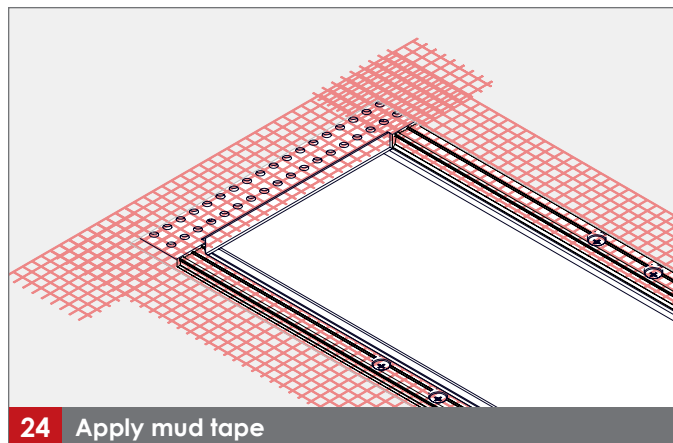
Outside corner



Outside corner

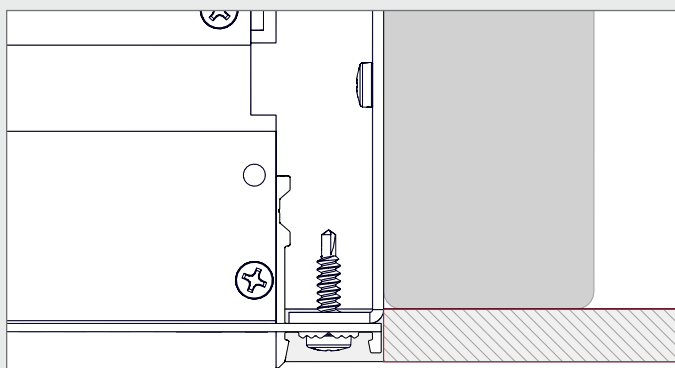
Installation: Mud-In Finishing

- ❑ If installing Mud-in fixtures continue with steps 23-26.
- ❑ If installing trim fixtures, go to step 28.



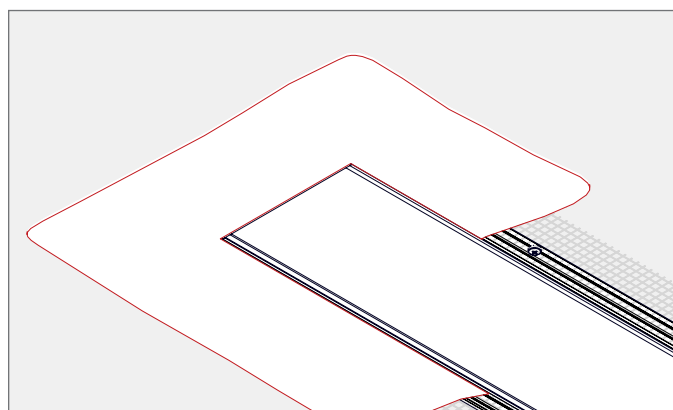
24 Apply mud tape

Apply mud tape.



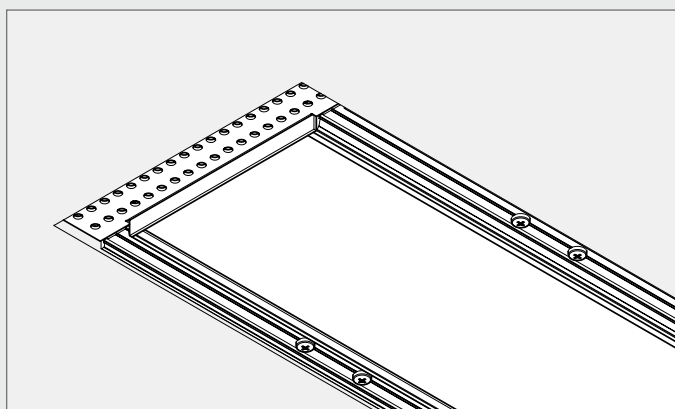
23A Install drywall

Install drywall around fixture. Drywall should sit against edge of fixture.



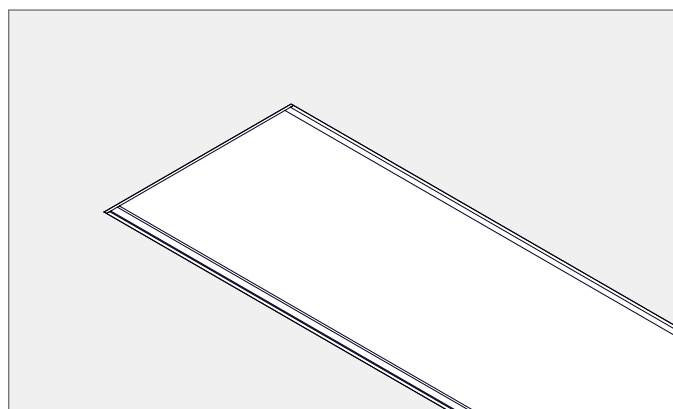
25 Apply mud

Apply mud with trowel. Once mud dries, sand for a smooth finish. **Do not get mud onto lens.**



23B Install drywall

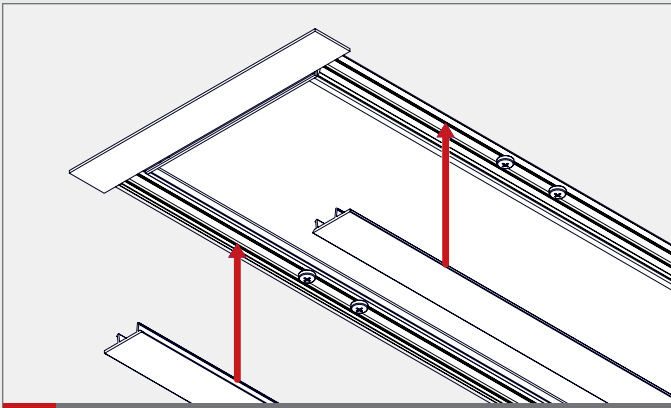
Drywall should be flush with edges of fixture but should not cover mud-in flanges.



26 Paint

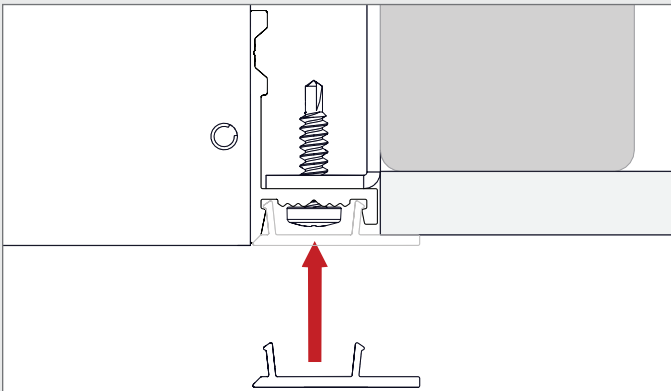
Finish with paint. **Do not get paint onto the exposed portions of fixture or lens.**

Installation: Trim Install



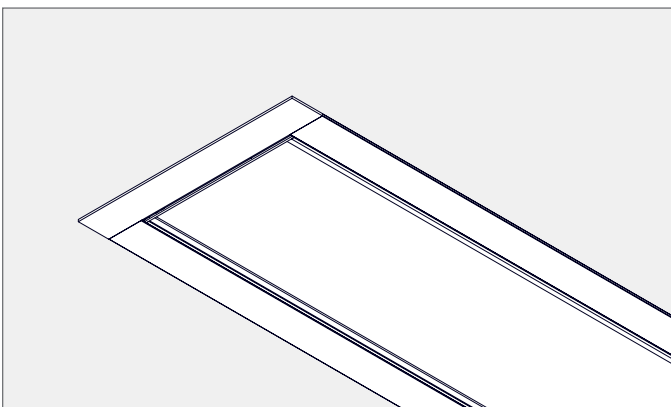
27A Install trim

Snap on trim flange attachments. Use a rubber mallet to apply trim flange if necessary.



27B Install trim

Snap on trim flange attachments. Use a rubber mallet to apply trim flange if necessary.

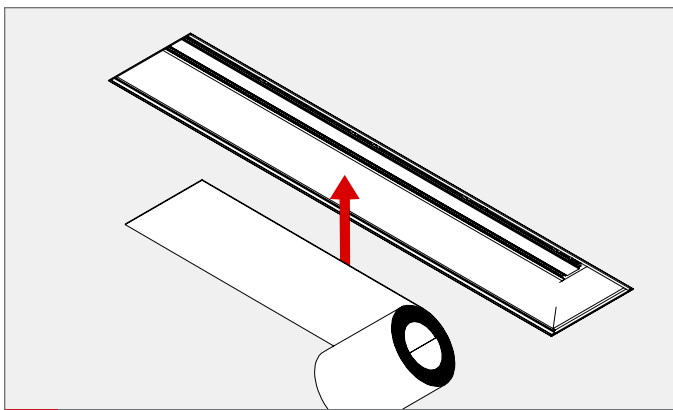


28 Check trim

Check trim for alignment and engagement. Trim should sit flush with drywall.

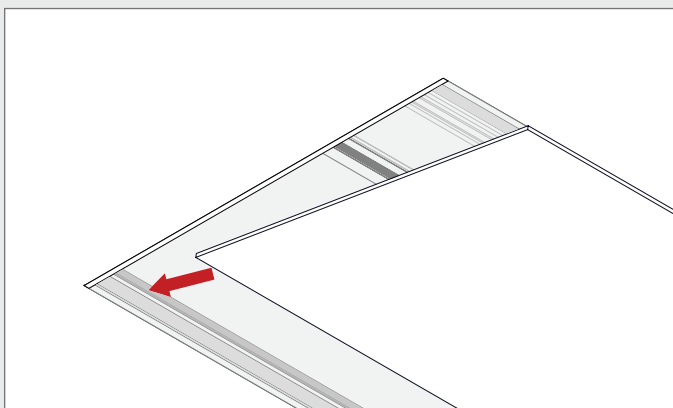
▣ If lens is not pre-installed,
continue to steps 29-32

Installation: ControlRoll™ Lens



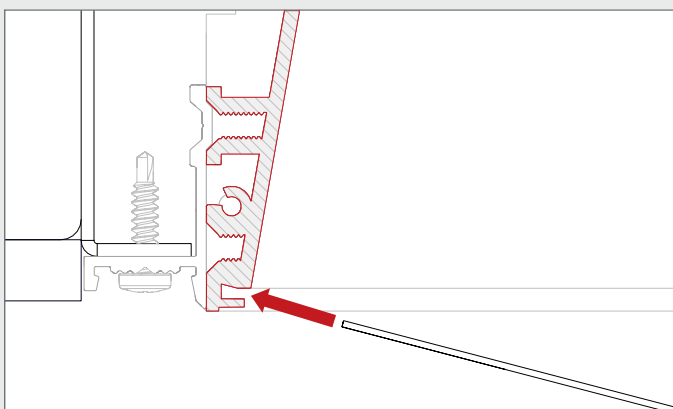
29 Bring lens to fixture

Raise ControlRoll lens to fixture. For longer fixture lengths, two people may be needed. **Always wear protective eyewear while handling lens.** Lens may chip/crack when handled roughly.



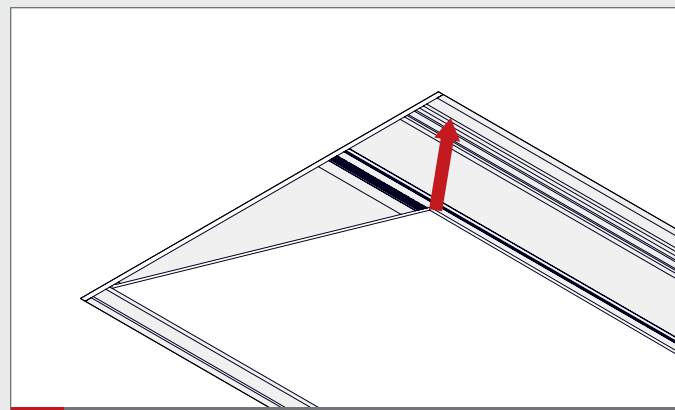
30A Pop in ControlRoll™ lens

Insert one edge ControlRoll lens into lens channel.



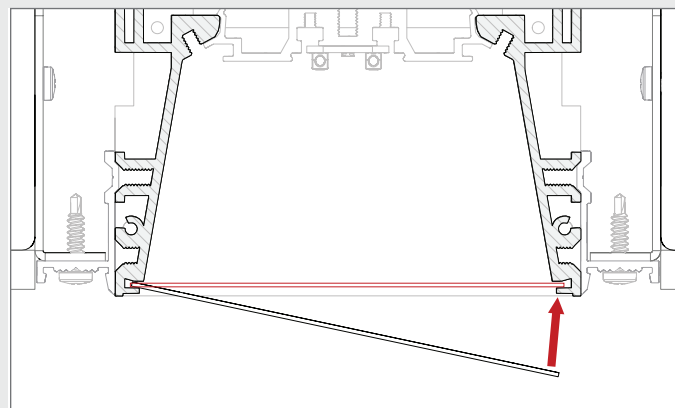
30B Insert ControlRoll lens into lens channel

Insert lens into lens channel.



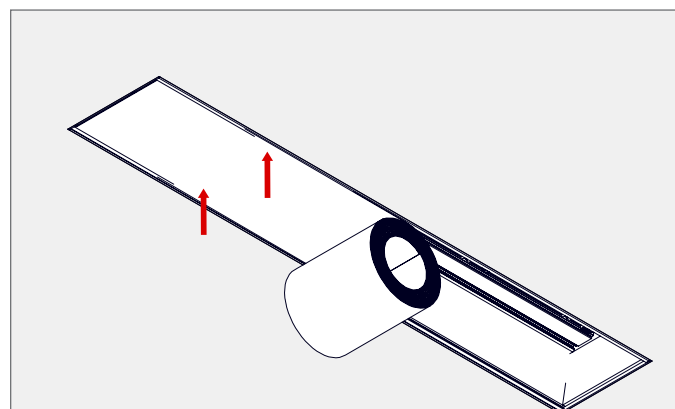
31A Press lens into lens channel

With first edge of lens in lens channel, press other side of lens up toward opposite channel.



31B Press lens into lens channel

Push lens upward until it snaps into second lens channel.

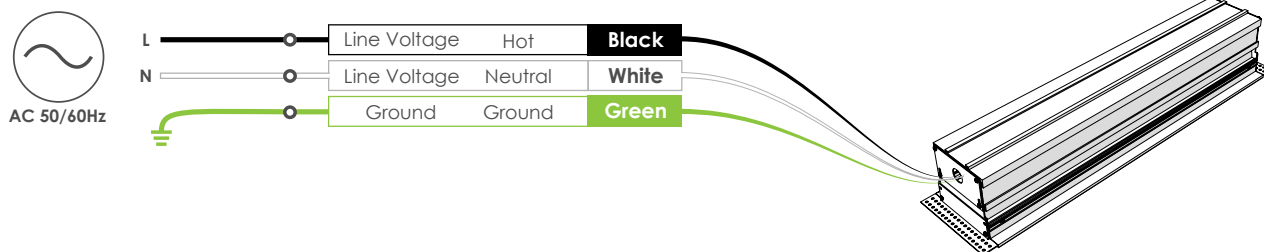


32 Snap lens along fixture

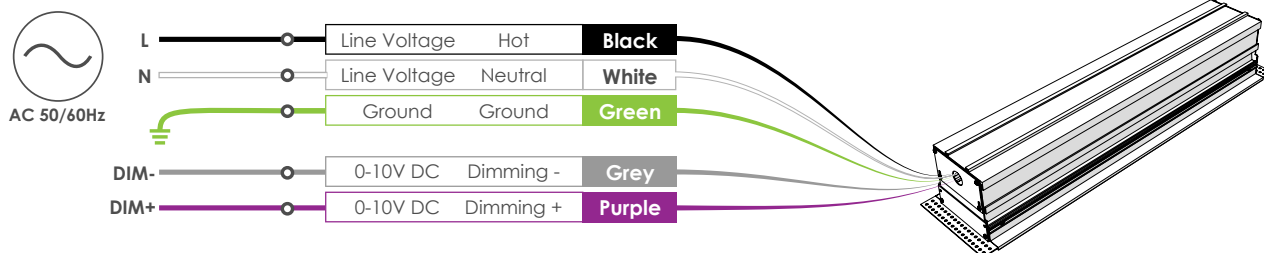
Continue pressing both sides of lens into lens channel until lens is fully installed along length of fixture.

Wiring Diagrams

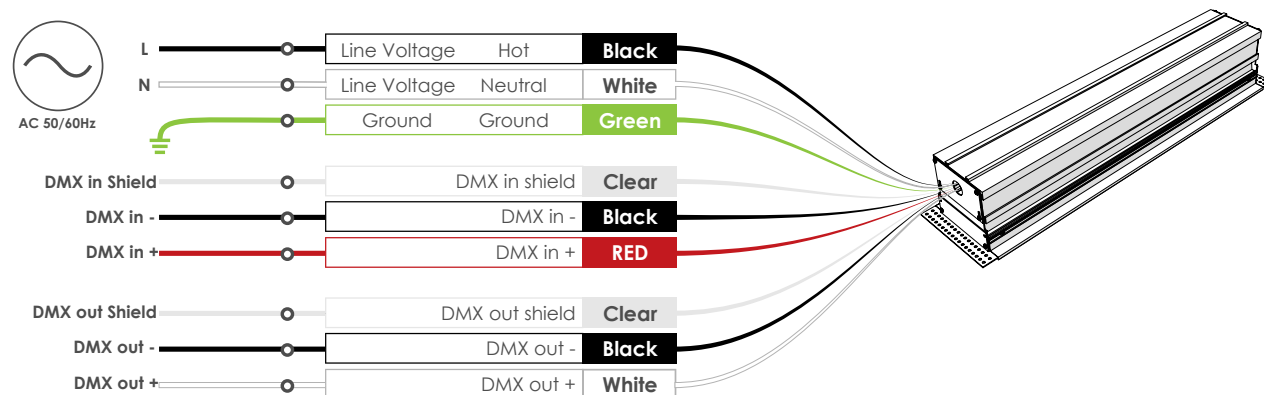
Traditional On/Off



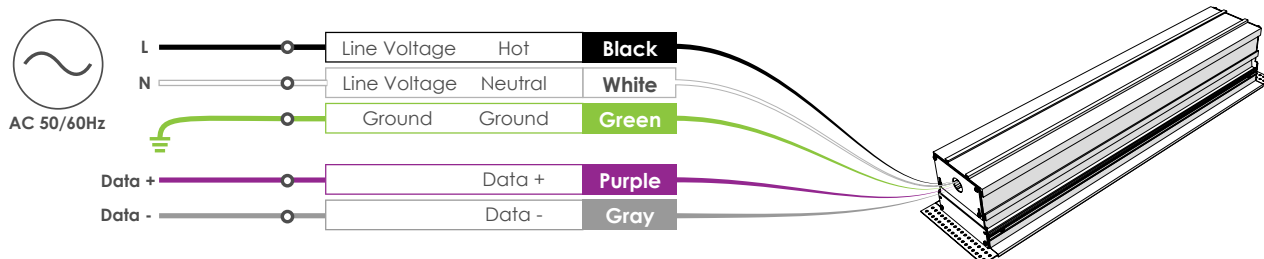
0-10V Dimming



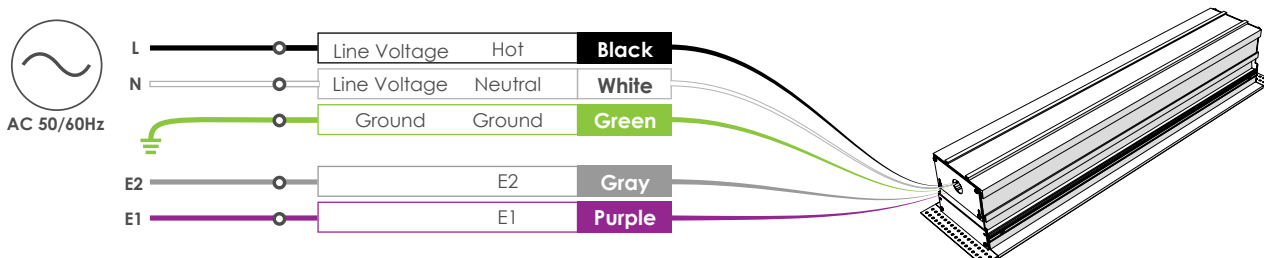
DMX



DALI



Lutron LDE



Troubleshooting

Only a certified electrician can service and troubleshoot product field issues. Always turn main power off before servicing fixture.

Full Fixture does not illuminate

- Ensure fixture is wired correctly and power is on.
- Check that circuit breaker is on and not off or tripped.
- Internal LED driver may be defective.

Full fixture is flickering

- **0-10V, DMX, and DALI Dimming Models:** Ensure polarity is correct for DATA + and - connections. Swapping DATA + and - connections can cause flickering.
- **TRIAC Dimming Models:** Ensure a compatible TRIAC Forward Phase dimmer is connected to fixture. Call tech support for further information.
- Possible loose DATA + and - connections from fixture to 0-10V, DMX, or DALI control.
- Possible loose low voltage DC + or - connection from driver to LED. Call customer support.

Fixture section(s) do not illuminate

- Possible loose low voltage DC + or - connection between LED boards or from LED driver to LED boards.
- Some fixtures contain multiple LED drivers. In this case, it's possible one of the drivers is defective, which will cause the LED connected to the driver not to illuminate. Call tech support.

Fixture section(s) are flickering

- Possible loose low voltage DC + or - connection between LED boards.

Fixture does not dim

- **0-10V, DMX, and DALI Dimming Models:** Ensure polarity is correct for DATA + and - connections. Swapping DATA + and - connections can cause flickering.
- **TRIAC Dimming Models:** Ensure a compatible TRIAC Forward Phase dimmer is connected to fixture. Call tech support for further information.
- Possible loose DATA + and - connections from fixture to 0-10V, DMX, or DALI control.